

MULTIMEDIA



UNIVERSITY

STUDENT ID NO

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MULTIMEDIA UNIVERSITY

FINAL EXAMINATION

TRIMESTER 2, 2019/2020

DCS5111 – COMPUTER CONCEPTS & APPLICATIONS
(DIT)

7 MARCH 2020
2:30 p.m. – 4:30 p.m.
(2 Hours)

INSTRUCTIONS TO STUDENTS:

1. This Question paper consists of **4 pages**.
2. Answer **ALL** questions in **Section A** on the **OMR sheet**.
3. Answer **ALL** questions in **Section B** in the **Answer Booklet**.

Section A: 10 Multiple Choice Questions (10 marks)

Instruction: Shade your answers on the OMR sheet.

1. Which of the following is **TRUE** about binary language?
 - A. Consists of 0 and 1.
 - B. Eight bits is equal to one byte.
 - C. Each letter, number and special character consists of a unique combination of eight bits.
 - D. All of the above.
2. A _____ are designed to execute a few programs as quickly as possible and perform complex calculation rapidly.
 - A. mainframe
 - B. supercomputer
 - C. embedded computer
 - D. smartphone
3. Below are the characteristics of inkjet printer **EXCEPT** _____.
 - A. high-quality color printouts
 - B. use laser beam and static electricity
 - C. cheaper than laser printer
 - D. affordable
4. The _____ provides transfer speeds of 10 Gbps.
 - A. Thunderbolt
 - B. FireWire 800
 - C. USB 3.1
 - D. USB 2.0
5. When a computer is in _____, it stores all the documents from RAM to hard drive.
 - A. hibernate mode
 - B. sleep mode
 - C. cold boot
 - D. warm boot
6. When connected to the Internet, _____ are how computers identify each other.
 - A. specific addresses
 - B. email addresses
 - C. Internet Protocol (IP) addresses
 - D. gateway addresses
7. Which of the following is **NOT** social networking site?
 - A. Facebook
 - B. LinkedIn
 - C. Twitter
 - D. iTunes

Continued.....

8. Below are the characteristics about webcast **EXCEPT** _____.
- A. webcast is the broadcast of audio or video over the Internet
 - B. webcasts are live or one-time events
 - C. webcasts include interactive responses
 - D. webcasts are updated automatically
9. Which of the following is **FALSE** about guidelines to make online shopping safer?
- A. Shop at well-known and reputable sites.
 - B. Check the beginning of the URL changes from "http://" to "https://".
 - C. Avoid making online transactions when using public computers.
 - D. Switch off firewall.
10. _____ allows you to return to a specific web page without having to remember the address.
- A. Citing
 - B. Tagging
 - C. Sharing
 - D. Bookmarking

Section B: 4 Structured Questions (40 marks)

Instruction: Write your answers in the Answer Booklet.

Question 1

- a) When Jane is working on a slide presentation, she makes use of the template provided in the Microsoft PowerPoint to complete her tasks. Briefly explain how a template can complete her task more efficiently. (3 marks)
- b) Differentiate between full installation and custom installation. (2 marks)
- c) Briefly explain for the following types of user interface:
- i. Command – driven interface (1 mark)
 - ii. Menu – driven interface (1 mark)
- d) Briefly describe **TWO** tools of system maintenance utilities. (3 marks)

[TOTAL 10 MARKS]

Continued.....

Question 2

- a) When the CPU performs a program instruction, it goes through one process called machine cycle. Briefly explain the steps involved in machine cycle.
(4 marks)
- b) State **TWO** characteristics of solid-state drive (SSD).
(1 mark)
- c) Differentiate between personal area network (PAN) and home area network (HAN). Give **ONE** example each for PAN and HAN.
(3 marks)
- d) Generally, wireless signal is being affected easily as compared with wired network. Briefly explain **TWO** reasons why wireless signals might have decreased its throughput.
(2 marks)

[TOTAL 10 MARKS]

Question 3

- a) State **SIX** similar features that can be found in the smartphone and tablet.
(3 marks)
- b) Chris realized that the images captured by using compact “point-and-shoot” camera and digital SLR are different. List **FOUR** factors that would affect image quality.
(2 marks)
- c) As an IT technician in private company, identify **THREE** symptoms the computer might be affected by the computer virus.
(3 marks)
- d) Antivirus software is specifically designed to detect viruses and protect computers and files from harm. List **THREE** main functions and **ONE** example of antivirus software.
(2 marks)

[TOTAL 10 MARKS]

Question 4

- a) Problem identification is the first step of the System Development Life Cycle (SDLC). Briefly describe **THREE** actions that are involved in the problem identification phase.
(3 marks)

Continued.....

- b) State the difference between compiler and interpreter that are involved in the compilation phase of Program Development Life Cycle (PDLC).
(2 marks)
- c) An object-oriented database is a database that stores data in objects rather than in tables. Briefly explain **THREE** advantages of an object-oriented database.
(3 marks)
- d) Business intelligence (BI) is the ability to improve business decision making with databases. Give **TWO** functions of using business intelligence.
(2 marks)

[TOTAL 10 MARKS]